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(54) CERAMICS FOR ELECTROSTATIC CHUCK AND COMPOSITION FOR PRODUCING THE SAME

(57)Abstract:

PURPOSE: To provide a material having volume resistivity, mechanical strength and thermal stability fit for a material for an electrostatic chuck and not contg. a component causing pollution.

CONSTITUTION: A ceramic sintered compact based on alumina, contg. 0.175-11.4wt.% metallic silicon in the matrix and having 1010-1013O.cm volume resistivity is used. This sintered compact is produced using powders of alumina and metallic silicon having $\leq 10\mu\text{m}$ particle diameter as starting materials.

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